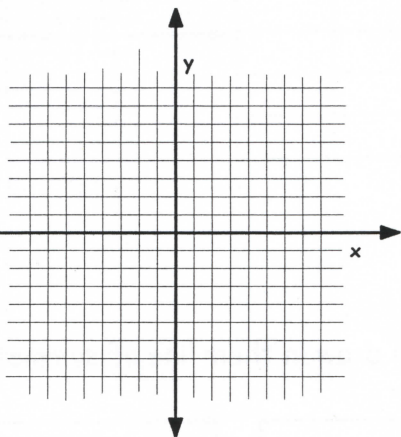


Complete the following tables by choosing x values, and then using the equation given to find the y values.

Then, use the table and plot the coordinate points to graph the equation.

$$y = \frac{1}{2}x + 2$$

X	Y

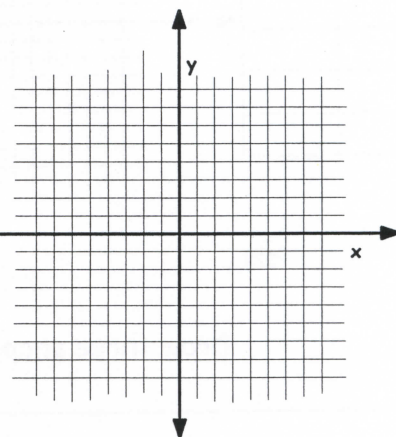


What type of function is this?

How do you know?

$$y = \text{2x} - 3$$

X	Y

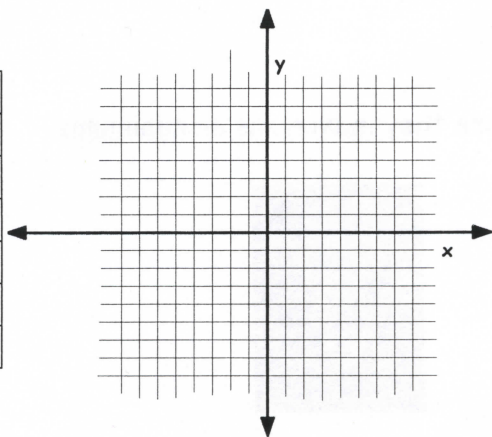


What type of function is this?

How do you know?

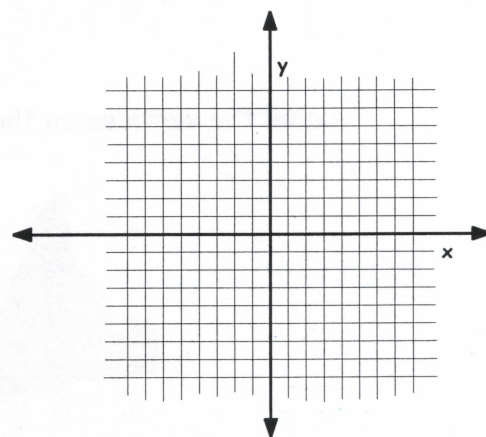
$$y = x^2$$

X	Y



$$y = x^2 + 1$$

X	Y



What type of functions are these both??

How do you know?

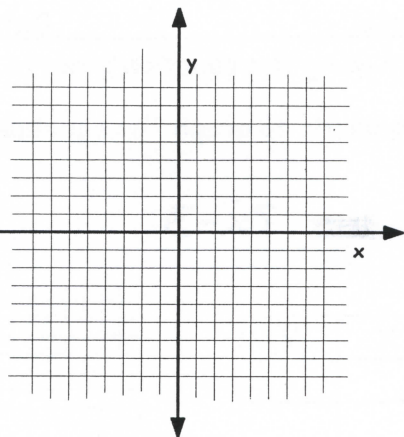
Equation: _____

Shape: _____

THESE ARE CALLED _____!!!

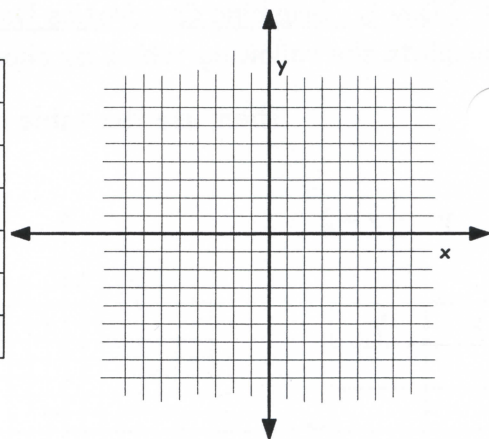
$$y = -x^2$$

X	Y

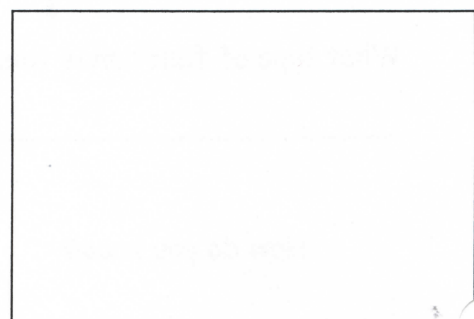
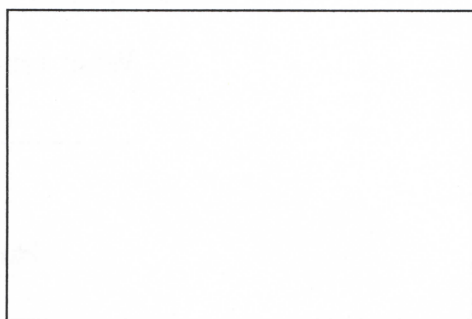
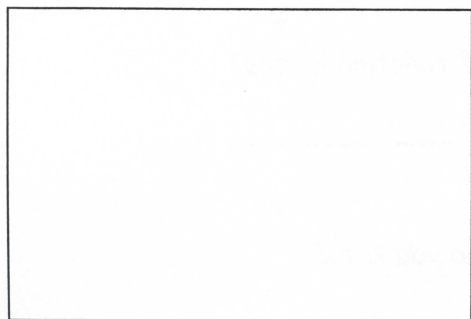


$$y = 2x^2 - 3$$

X	Y

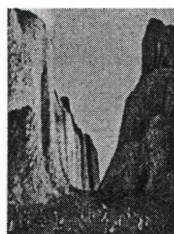


Draw three shapes that have symmetry, then draw in their line of symmetry:



Definition of **Line of Symmetry**: _____

Label the **vertices** on the following pictures. Are they maximums or minimums?



Definition **Vertex**: _____

(A vertex can be a maximum, or can be a minimum on a graph)

-highest point-

-lowest point-

Go back to the last four problems and draw in the **line of symmetry** and label the **vertex** on each graph.